

Application Number 09/907,230
Amendment in response to Office Action mailed January 5, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently amended): A method of preventing creation of unauthorized and accessible copies of a medium comprising:

receiving input from a user;

receiving an access key from the medium, wherein the access key facilitates access to digital content on the medium and includes uncorrected data and associated error correction information, wherein the error correction information of the access key includes one or more errors; and

controlling access to the digital content on the medium based on the input and the uncorrected data, wherein controlling access to the digital content on the medium includes:

copying the digital content from the medium to a second medium;

applying the error correction information to the uncorrected data to produce a second access key that is modified relative to the access key that facilitates access to the digital content on the medium due to the application of the error correction information to the uncorrected data; and

copying the second access key to the second medium.

Claim 2 (Currently amended): The method of claim 1, wherein controlling access to the digital content on the medium further comprises:

invoking a device driver of a storage device to read the uncorrected data from the medium without modification from application of the error correction information; and

comparing the uncorrected data and the input.

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Claim 3 (Currently amended): The method of claim 1, wherein controlling access to the digital content on the medium further includes installing a software application from the medium onto a computing system.

Claim 4 (Currently amended): The method of claim 1, wherein controlling access to the digital content on the medium further includes executing a software application from the medium.

Claim 5 (Canceled).

Claim 6 (Currently amended): The method of claim 1, wherein controlling access to the digital content on the medium further includes producing an audio output based on content stored on the medium.

Claim 7 (Canceled).

Claim 8 (Original): The method of claim 1, wherein the error correction information includes error correction information selected from an error correction code, a cyclic redundancy code, and a Cross Interleaved Reed-Solomon Code.

Claim 9 (Currently amended): The method of claim 1, wherein controlling access to the digital content on the medium further comprises decrypting the digital content contained within the medium based on the uncorrected data and the input.

Claim 10 (Original): The method of claim 9, wherein the digital content comprises at least one of a software application, audio data, or video data.

Claim 11 (Original): The method of claim 1, wherein receiving the access key includes decrypting the access key.

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Claim 12 (Original): The method of claim 1, further including selecting the access key from a plurality of access keys, where each of the access keys includes data and associated error correction information having one or more errors.

Claim 13 (Original): The method of claim 12, where selecting the access key includes:
assigning a random number to the medium, wherein the random number is uniquely associated with the medium;
selecting the access key from the plurality of access keys based on the random number;
generating a hash value from the random number and the selected access key; and
decrypting content of the medium using the hash value.

Claim 14 (Original): The method of claim 1, wherein the uncorrected data includes accurate error correction information for the uncorrected data.

Claim 15 (Currently amended): A computer-readable medium comprising instructions that prevent creation of unauthorized and accessible copies of a digital medium, wherein the instructions cause a programmable processor to:

receive input from a user;
read an access key from the digital medium, wherein the access key facilitates access to digital content on the digital medium and includes uncorrected data and associated error correction information, wherein the error correction information of the access key includes one or more errors; and
control access to the digital content on the digital medium based on the input and the uncorrected data, wherein the instructions control access to the digital content by:
copying the digital content from the medium to a second medium;
applying the error correction information to the uncorrected data to produce a second access key that is modified relative to the access key that facilitates access to the digital content on the medium due to the application of the error correction information to the uncorrected data;
and
copying the second access key to the second medium.

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Claim 16 (Previously presented): The computer-readable medium of claim 15, wherein the instructions cause the processor to invoke a device driver of a storage device to read the uncorrected data from the digital medium without modification based on the error correction information, and to compare the uncorrected data and the input.

Claim 17 (Previously presented): The computer-readable medium of claim 15, wherein the instructions cause the processor to install a software application from the digital medium onto a computing system based on the input and the uncorrected data.

Claim 18 (Previously presented): The computer-readable medium of claim 15, wherein the instructions cause the processor to execute a software application from the digital medium based on the input and the uncorrected data.

Claim 19 (Previously presented): The computer-readable medium of claim 15, wherein the instructions cause the processor to produce an audio output from content stored on the digital medium based on the input and the uncorrected data.

Claim 20 (Original): The computer-readable medium of claim 15, wherein the error correction information includes error correction information selected from an error correction code, a cyclic redundancy code, and a Cross Interleaved Reed-Solomon Code.

Claim 21 (Currently amended): The computer-readable medium of claim 15, wherein the instructions cause the processor to decrypt the digital content from the digital medium based on the uncorrected data-set.

Claim 22 (Original): The computer-readable medium of claim 15, wherein the uncorrected data includes accurate error correction information for the uncorrected data, and where the processor corrects errors in the uncorrected data with the accurate error correction information.

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Claim 23 (Currently amended): A computer-readable medium comprising:
digital content;
an access key that facilitates access to the digital content on the medium and prevents creation of unauthorized copies of the medium, wherein the access key includes uncorrected data and associated error correction information having one or more errors;
an executable software application to control access to the digital content based on the uncorrected data by applying the error correction information to the uncorrected data to produce a second access key when the digital content is copied from the medium to a second medium, wherein the second access key is modified relative to the access key that facilitates access to the digital content on the medium due to the application of the error correction information to the uncorrected data, and wherein the second access key is copied to the second medium as its respective access key.

Claim 24 (Original): The data storage device of claim 23, wherein the digital content comprises a software program.

Claim 25 (Original): The data storage device of claim 23, wherein the digital content is selected from one of an audio file and a video file.

Claim 26 (Original): The data storage device of claim 23, wherein the error correction information includes an incorrect cyclic redundancy code.

Claim 27 (Original): The data storage device of claim 23, wherein the error correction information causes the uncorrected data to be changed when the computer-readable medium is copied.

Claim 28 (Original): The data storage device of claim 23, wherein the uncorrected data includes accurate error correction information that corrects errors in the uncorrected data.

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Claim 29 (Currently amended): A method of preventing creation of unauthorized and accessible copies of a medium comprising:

generating an access key that facilitates access to digital content on the medium, wherein the access key includes uncorrected data and incorrect error correction information; and

associating the digital content and the access key on the medium;

copying the digital content from the medium to a second medium;

applying the error correction information to the uncorrected data to produce a second access key, wherein the second access key is modified relative to the access key that facilitates access to the digital content on the medium due to the application of the error correction information to the uncorrected data; and

copying the second access key to the second medium.

Claim 30 (Previously presented): The method of claim 29, wherein associating the digital content and the access key comprises communicating the digital content and the access key through a transmission medium.

Claim 31 (Previously presented): The method of claim 29, wherein associating the digital content and the access key comprises storing the digital content and the access key on the medium.

Claim 32 (Canceled).

Claim 33 (Original): The method of claim 29, further comprising:

receiving input from a user;

generating an encryption key based on the input and the access key;

encrypting the digital content based on the encryption key; and

associating the encrypted digital content with the access key.

Claim 34 (Original): The method of claim 33, wherein associating the encrypted digital content with the access key comprises communicating the encrypted digital content and the access key through a transmission medium.

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Claim 35 (Original): The method of claim 29, wherein the digital content includes an audio file.

Claim 36 (Original): The method of claim 29, wherein the digital content includes an application file.

Claim 37 (Original): The method of claim 29, wherein generating the access key includes generating uncorrected data having accurate error correction information.

Claim 38 (Previously presented): The method of claim 1, wherein the access key comprises a cryptographic access key that facilitates decryption of the digital content on the medium.